

Title (en)  
ELECTRONIC CONTROL DEVICE

Title (de)  
ELEKTRONISCHE STEUERUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMMANDE ÉLECTRONIQUE

Publication  
**EP 2916636 A1 20150909 (EN)**

Application  
**EP 13851345 A 20131025**

Priority  
• JP 2012242949 A 20121102  
• JP 2013078897 W 20131025

Abstract (en)  
The invention provides an electronic control device having a high-grade heat sink that: does not require tight control at the time of manufacturing; is structurally simple; can be produced at a higher production rate; and is cost-effective. In this device, when a circuit board 14 having an electronic component 13 thereon is placed in a non-metal (resin) housing having: a housing base 11 integrally comprising via a partition wall 11a a connector inserting section 18 used for electrical connection with an external mating connector (not illustrated); and a housing cover 12 attached to the housing base 11, part of the board 14 is inserted into an insertion hole provided in the partition wall 11a so that it is exposed inside the connector inserting section 18. When a convex-shaped metal part 15, used as a heat sink, having a flange 15a on the bottom side is attached from an opening provided in the housing base 11, the top section of the metal part 15 comes into contact with mounting position of the electronic component 13 on the board 14 via a heat dissipating filler material 16, and the flange 15a and the wall section near the opening are brought into contact with each other via a sealing filler material 17.

IPC 8 full level  
**H05K 7/20** (2006.01); **H01L 23/34** (2006.01); **H05K 5/00** (2006.01); **H05K 7/14** (2006.01)

CPC (source: EP US)  
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Cited by  
EP3358683A1; FR3093397A1; EP3684154A1; WO2017218614A1; US10590940B2; US11073156B2; US11076503B2

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Designated extension state (EPC)  
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